

Title: DIAGNOSIS AND TREATMENT OF PTP04 RELATED DISORDERS Inventor(s): a JALLAL et al. DOCKET N 338602/1125

Figure 1

Masch 78.5%; QryMatch 68.4%; Matches 572; Conservative 105; Mismatches 121;

Indels 13;		6;
		******** * *** **, ****,***************
2252_m Siptp04_h		YDGREILQQLLKEAGKKUNSEEFASEFLKLKRQSTKYKADKIYPTTVAQRFKNIKORY 60 6
		******* * *****************************
2PEP_m SuPTPO4_h		KDILPYDHSLVELSLITSDEDSSYINASFIKGVYGPKAYIATQOPLSTTLLDFWRMIWEY 120 KDILPYDYSRVELSUITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEY 120
ZBES_W		RILVIVMACMEFEMGKKKCERYWAEPGETQLQFGP7SISCEAEKGKSDYKIRTLKAKFNN 180
SuPTP04_h	121	SVLIIVMACMEYEMBKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNS 180
		*** ***********************************
ZPEP_M SuPTPO4_h		ETRIIYQFHYKNWPDHDVPSSIDPILQLIWDMRCYQEDDCVPICIHCSAGCGRTGVICAV 240 ETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAI 240

2PEP_m 9uPTPO4_h		DYTWMLLKDGIIPKNFSVFNLIQEMRTQRPSLVQTQEQYELVYSAVLELFKRHMDVISDN 300 DYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQMDVIRDK 300
		* * * * *
ZPEP_m		HIGREIQAQCSIPEQSL/TVEADSCPLDLPKNAMRDVKTTNQHSKQGAEAESTGGSSLGLR 360
Suptr04_h	301	HSGTESQAKHCIPEKNHTLQADSYSPNLPKSTTKAAKMMQQRTKKEIKESSSFIFR 357
		** * ****** ** *** *** * _ * _ * _ * _ * *
ZPEP_m SupTpO4_h		TSTYMAEEELVLHSAKSSPSFNCLEINCGCNNKAVITRNGQARASFVVGEPLQKYQSLDF 420 TSEISAKEELVLHPAKSSTSFDFLEINYSFDKNADTTMKWQTKAFPIVGEPLQKHQSLDL 417
		***** *
ZPEP_m Suptr04_h		GSMLFGSCF9ALPINTADRYHNSKGFVKRTKSTPFELIQQRKTNDLAVGDGFSCLESQLH 480 GSLLFEGCSNSKFVNAAGRYFNSKVPITRIKSTPFELIQQRETKEVDSKENFSYLESQPH 477
2PBP_m SuPTF04_h		EHYSLRELQVQRVAHVSSEELNYSLPGACDASCVPRHSPGALRVHLYTSLAEDPY 535 DSCFV-EMQAQKVMHVSSAELNYSLPYDSKHQIRNASNVKHHDSSALGVYSYIPLVENPY 536
		*** **;;; **** *******; *;;***;***; * * *;**** ;*; *;
ZPEP_m Suptp04_h		FSSSPPNSADSKMSFDLPEKQDGATSPGALLPASSTTSPFYSNPHDSLVMNTUISFSPPL 595 FSSWPPSGTSSKM9LDLPEKQDGTVFPSSLLPTSSTSLPSYYNSHDSLSLNSPTNISSLL 596
		****** * * * ******* ********* ** * * ** *
ZPEP_m Suptr04_h		NQETAVEAPSRRTDDEIPPPLPERTPESFIVVEEAGEPSPRVTESLPLVVTFGASPEC 653 NQESAVLATAPRIDDEIPPPLPVRTPESFIVVEEAGEFSPNVPKSLSSAVKVKIGTSLEW 656
ZPE?_m SuPTP04_h		SGTSE-MKSHDSVGFTPSKNVKLRSPKSDRHQD-GSPPPPLPERTLESFFLADEDCICAQ 711 GGTSEPKKFDDSVILRPSKSVKLRSPKSELHQDRSSPPPPLPERTLESFFLADEDCMCAQ 716
ZPEP_m SupTPO4_h		AVÇTSSTSYPETTENSTSSKQTLRTPGKSFTRSKSLKIFRNMKSVCNSSSPSKPTERVQ 771 SIETYSTSYPDTMENSTSSKQTLKTPGKSFTRSKSLKILRNMKKSICNSCPPNKPAZSVQ 776
2PEP_m Suptp04_h		PKNSSSFLNFGFGNRFSKPKGPRNPPSAWAM 802 STENSSSFLNFGFARTESKPKGPRNPPPTANI 807